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molecules.

(57) DNA molecules are taught which code for an odorant-binding protein which is synthesized solely in the lateral nasal gland. This protein, because of the broad range of odorants which it binds, can be used in many techniques for trapping odorants in either a liquid or solid medium. This protein bears some structural homology with other carriers of small lipophilic molecules from many other species; the carriers are known to transport specific lipophilic

(54) Odorant-binding protein from rat

(71) Applicant: THE JOHNS HOPKINS UNIVERSITY
720 Rutland Avenue
Baltimore, MD 21205(US)
(72) Inventor: Snyder, Solomon H.
2300 West Rogers Avenue
Baltimore Maryland 21209(US)
Inventor: Pevsner, Jonathan
2644 Guilford Avenue
Baltimore Maryland 21218(US)
Inventor: Reed, Randall
7 St. Dunstan's Garth
Baltimore Maryland 21212(US)
(74) Representative: Hartley, David et al
Withers & Rogers 4 Dyer's Buildings Holborn
London, EC1N 2JT(GB)

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EUROPEAN SEARCH REPORT

Application Number

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
X	SOC. NEUROSCI., vol. 13, no. 1, 1987, page 362, abstract no. 102.10; J. PEVSNER et al.: "Odorant-binding protein: cDNA cloning and homology to rat alpha2-microglobulin" * Whole abstract *	1-7	C 12 N 15/00 C 07 K 13/00 C 12 P 21/02 C 11 B 9/00
P, X	SCIENCE, vol. 241, July 1988, pages 336-339; J. PEVSNER et al.: "Molecular cloning of odorant-binding protein: member of a ligand carrier family" * Whole article *	1-7	TECHNICAL FIELDS SEARCHED (Int. Cl. 4) C 12 N C 07 K C 12 P
<p>The present search report has been drawn up for all citations</p>			
Place of search		Date of completion of the search	Examiner
THE HAGUE		05-06-1990	LE CORNÉC N.D.R.
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>I : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

<div style="border: 1px solid black; padding: 2px;">CLAIMS INCURRING FEES</div>	<p>The present European patent application comprised at the time of filing more than ten claims.</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><input type="checkbox"/> All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.</p> <p><input type="checkbox"/> Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid.</p> <p><input type="checkbox"/> No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.</p> </div> <div style="width: 45%;"> <p>namely claims:</p> </div> </div>
<div style="border: 1px solid black; padding: 2px;">LACK OF UNITY OF INVENTION</div>	<p>The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions.</p> <p>namely:</p> <ol style="list-style-type: none"> 1. Claims 1-7: Method of producing OBPL by recombinant means and DNA coding therefore. 2. Claims 8-16: Method of concentrating odorants using OBPL. 3. Claim 17: Method of reducing the rate of volatilization of odorants using OBPL. 4. Claim 18: Method of solubilizing lipophilic odorants in aqueous media using OBPL. 5. Claim 19: Method of screening odorants using OBPL.
<p>5. Claim 19: Method of screening odorants using OBPL.</p>	
<p>4. Claim 18: Method of solubilizing lipophilic odorants in aqueous media using OBPL.</p>	
<p>3. Claim 17: Method of reducing the rate of volatilization of odorants using OBPL.</p>	
<p>2. Claims 8-16: Method of concentrating odorants using OBPL.</p>	
<p>1. Claims 1-7: Method of producing OBPL by recombinant means and DNA coding therefore.</p>	
<p>namely:</p> <ol style="list-style-type: none"> 1. Claims 1-7: Method of producing OBPL by recombinant means and DNA coding therefore. 2. Claims 8-16: Method of concentrating odorants using OBPL. 3. Claim 17: Method of reducing the rate of volatilization of odorants using OBPL. 4. Claim 18: Method of solubilizing lipophilic odorants in aqueous media using OBPL. 5. Claim 19: Method of screening odorants using OBPL. 	
<p>All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.</p> <p>Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid.</p> <p>None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims.</p> <p style="text-align: right;">namely claims: 1-7</p>	



